



PATENT APPLICATION

#4

4-27-04

TDS w/Refers

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Bishnu Atal

Serial No.: 09/998,959

Filed: 11/01/2001

FOR: A SYSTEM AND METHOD OF  
PATTERN RECOGNITION IN VERY HIGH-  
DIMENSIONAL SPACE:  
:  
:  
:  
Attorney Ref.: 2000-0606  
:  
Art Unit: 2621  
:  
Examiner:  
:  
:RECEIVED  
APR 23 2004  
Technology Center 2600MAIL STOP: Patent Application  
The Commissioner for Patents  
Patent & Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313-1450INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08A. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom. In accordance with 37 C.F.R. §1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in §1.56(b).

Also provided with this IDS is a copy of the European Search Report received from the associated European patent application.

- ☒ 1. This information disclosure statement is being filed within three months of the filing date of a national application other than a continued prosecution application under §1.53(d); within three months of the date of the entry of the national stage as set forth in §1.491 in an international application; before the mailing of a first Office action on the merits; or before the mailing of a first Office action after the filing of a request for continued examination under §1.114. No certification or fee is required. (37 C.F.R. §1.97(b)).
- ☐ 2. This information disclosure statement is being filed more than three months after the filing date of a national application other than a continued prosecution application under §1.53(d); more than three months after the date of the entry of the national stage as set forth in §1.491 in an international application, after the mailing date of a first Office action on the merits, or after the mailing of a first Office action after the filing of a request for continued examination under §1.114, but before the mailing date of any of a Final action under §1.113, a Notice of Allowance under §1.311 or an action that otherwise closes prosecution in the application. (37 C.F.R. §1.97(c)).

- ☐ a. I hereby certify that each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement. (37 C.F.R. §1.97 (e)(1)).
- ☐ b. I hereby certify that no item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application and to my knowledge after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of this information disclosure statement. (37 C.F.R. §1.97 (e)(2)).
- ☐ c. Please debit Deposit Account No. \_\_\_\_\_ in the amount of \_\_\_\_\_ to cover the fee under 37 C.F.R. §1.17(p) and to ensure consideration of the disclosed information.
- ☐ 3. This information disclosure statement is being filed after the mailing date of any of a Final action under §1.113, a Notice of Allowance under §1.311, or an action which otherwise closes prosecution, whichever occurs first, but on or before payment of the Issue Fee. (37 C.F.R. §1.97(d)).
- ☐ a. I hereby certify that each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement. (37 C.F.R. §1.97(e)(1)).
- ☐ b. I hereby certify that no item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of this information disclosure statement. (37 C.F.R. §1.97(e)(2)).
- ☐ c. Please debit Deposit Account No. \_\_\_\_\_ in the amount of \_\_\_\_\_ to cover the fee under 37 C.F.R. §1.17(p) and ensure consideration of the disclosed information.

Respectfully submitted,

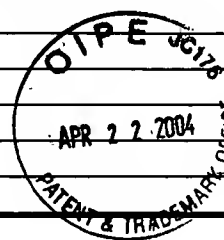
Date: 4/20/01

Thomas M. Isaacson

Correspondence Address:  
Samuel H. Dworkin  
AT&T Corp.  
Room 2A-207  
One AT&T Way  
Bedminster, NJ 07921

Thomas M. Isaacson  
Attorney for Applicants  
Reg. No. 44,166  
Phone: 410-414-3056  
Fax No.: 410-510-1433

Substitute for form 1449A/PTO		Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Applicant Number	09/998,959
		Filing Date	11/01/2001
		First Named Inventor	Bishnu Atal
		Group Art Unit	2621
		Examiner Name	
Sheet 1 of 2	Attorney Docket Number	2000-0606	



RECEIVED

APR 23 2004

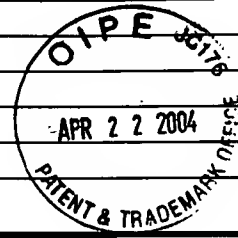
Technology Center 2600

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
		5,638,489	A	Tsuboka, Eiichi	06-10-1997	Column 1 lines 10 – 51 Column 7 lines 11 – 32; figure 3

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Office <sup>4</sup>	Number (if known)	Kind Code <sup>5</sup>				
		EP	0 750 293	A	Canon, K.K.	12-27-1996	Page 2 lines 3 – 5 Page 3 lines 21 – 36 Page 5 lines 33 – 39; figures 1,5	
Examiner Signature					Date Considered			

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO				Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				Application Number	09/998,959
				Filing Date	11/01/2001
				First Named Inventor	Bishnu Atal
				Group Art Unit	2621
				Examiner Name	
Sheet	2	of	2	Attorney Docket Number	2000-0606



OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	1	LIBBY B.T. ET AL: "Robust Speech Recognition Using Singular Value Decomposition Based Speech Enhancement", TELCON '97, IEEE Region 10 Annual Conference, December 2, 1997, pages 257-260.	<input type="checkbox"/>
	2		<input type="checkbox"/>
	3		<input type="checkbox"/>
	4		<input type="checkbox"/>
	5		<input type="checkbox"/>
	6		<input type="checkbox"/>

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number <sup>2</sup> Applicant is to place a check mark here if English language translation is attached.  
 SEND TO: Commissioner for Patents, Mail Stop: Patent Application, P.O. Box 1450, Alexandria, VA 22313-1450

**RECEIVED**  
**APR 23 2004**  
**Technology Center 2600**